

ABSTRACT OF THE DISCLOSURE

In optoelectronic systems, package moisture can affect stress levels in dielectric coatings on MEMS devices. Specifically, as the moisture content in these dielectric coatings changes, there are concomitant changes in the material stress. These changes in material stress can affect the operation of the overall MEMS device. Specifically, in the context of tunable filters, moisture can lead to a drift in the size of the optical resonant cavity over time as changes in material stress affect the MEMS structures. According to the invention, a getter is added to the package to absorb moisture, and thereby stabilize the operation of the optical filter, and specifically prevent uncontrolled drift in the size of its optical cavity.

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